Contents of Volume 6 (1982)

No. 1 issued on October 13, 1982

Review Article

T. D. Fox
Mitochondrial Gene Expression at Castro, Italy **1**

Original Articles

M. S. Esposito, D. T. Maleas, K. A. Bjornstad, C. V. Bruschi
Simultaneous Detection of Changes in Chromosome Number, Gene Conversion and Intergenic Recombination During Mitosis of *Saccharomyces cerevisiae:* Spontaneous and Ultraviolet Light Induced Events **5**

P. Thuriaux, W.-D. Heyer, A. Strauss
Organisation of the Complex Locus *trp1* in the Fission Yeast *Schizosaccharomyces pombe* **13**

J. Davison, V. Ha Thi
The *Trypanosoma brucei* Maxi-Circle DNA Contains *ars* Elements Active in *Saccharomyces cerevisiae* **19**

C. Paquin, J. Adams
Isolation of Sets of a, α, a/α, a/a and α/α Isogenic Strains in *Saccharomyces cerevisiae* **21**

H. J. Halfmann, W. Röcken, C. C. Emeis, U. Zimmermann
Transfer of Mitochondrial Function into a Cytoplasmic Respiratory-Deficient Mutant of *Saccharomyces* Yeast by Electro-Fusion **25**

S. J. McCready, B. S. Cox
The Role of the *cdc9* Ligase in Replication and Excision Repair in *Saccharomyces cerevisiae* **29**

P. Fournier, C. Gaillardin, L. de Louvencourt, H. Heslot, B. F. Lang, F. Kaudewitz
r-DNA Plasmid from *Schizosaccharomyces pombe:* Cloning and Use in Yeast Transformation **31**

M. Crouzet, J. Bégueret
Altered Ribosomal Proteins in Emetine Resistant Strains in the Fungus *Podospora anserina* **39**

P. Plevani, L. Capucci, E. Ginelli, N. Sacchi, G. Badaracco
DNA Synthesis Catalyzed in vitro by Yeast Extracts Using A 2 μm DNA Containing Plasmid as Template for Enzymatic DNA Synthesis **47**

M. Ciriacy, D. Breilmann
δ Sequences Mediate DNA Rearrangements in *Saccharomyces cerevisiae* **55**

M. Kuntz, M. Keller, E. J. Crouse, G. Burkard, J. H. Weil
Fractionation and Identification of *Euglena gracilis* Cytoplasmic and Chloroplastic tRNAs and Mapping of tRNA Genes on Chloroplast DNA **63**

B.-I. Ono, M. Weng
Chromium Resistant Mutants of the Yeast *Saccharomyces cerevisiae* **71**

D. W. Tollervey, H. N. Arst, Jr.
Domain-Wide, Locus Specific Suppression of Nitrogen Metabolite Repressed Mutations in *Aspergillus nidulans* **79**

Short Communication

J. A. A. Chambers, S. A. Wilkins
A Regulatory Phenotype Associated With the *en-am* 1 Mutant of *Neurospora crassa* **87**

Erratum **91**

Indexed in Current Contents

No. 2 issued on November 12, 1982

Original Articles

F. Hilger, M. Prévot, R. Mortimer
Genetic Mapping of *arg, cpa, car* and *tsm* Genes in *Saccharomyces cerevisiae* by Trisomic Analysis **93**

A. Uchida, A. Takano, K. Suda
Distribution of Ultraviolet Light Irradiated Mitochondrial Genomes During Meiosis in Yeast **99**

Á. Cséplő, P. Maliga
Lincomycin Resistance, a New Type of Maternally Inherited Mutation in *Nicotiana plumbaginifolia* **105**

Y. Hussein, P. Heizmann, P. Nicolas, V. Nigon
Quantitative Estimations of Chloroplast DNA in Bleached Mutants of *Euglena gracilis* **111**

P. Heizmann, P. Ravel-Chapuis, V. Nigon
Minicircular DNA Having Sequence Homologies with Chloroplast DNA in a Bleached Mutant of *Euglena gracilis* **119**

S. Das, C. P. Hollenberg
A High-Frequency Transformation System for the Yeast *Kluyveromyces lactis* **123**

C. M. Colijn, P. Sijmons, J. N. M. Mol, A. J. Kool, H. J. J. Nijkamp
Light and Benzylaminopurine Induce Changes in Ultrastructure and Gene Expression in Plastids of *Petunia hybrida* Cell Cultures **129**

A. Nicolas
Variation of Crossover Association Frequencies with Various Aberrant Segregation Classes in Ascobolus **137**

M. N. Conrad, C. S. Newlon
The Regulation of Mitochondrial DNA Levels in *Saccharomyces cerevisiae* **147**

P. Tudzynski, K. Esser
Extrachromosomal Genetics of *Cephalosporium acremonium.* II. Development of a Mitochondrial DNA Hybrid Vector Replicating in *Saccharomyces cerevisiae* **153**

G. Faye, M. Simon
A Method to Sharply Delimit a Yeast Nuclear Gene in a Cloned DNA Fragment **159**

Short Communications

D. Becher, B. Conrad, F. Böttcher
Genetic Transfer Mediated by Isolated Nuclei in *Saccharomyces cerevisiae* **163**

K. M. V. Richmond, D. H. Williamson
Allele-Specific Suppression of a Cell Cycle Mutant of *S. cerevisiae* **167**

F. Meinhardt
Cleavage of the Double Stranded RNA Genome of Killer Yeast **171**

Indexed in Current Contents

No. 3 issued on December 10, 1982

I. B. Lazdins, D. J. Cummings
Autonomously Replicating Sequences in Young and Senescent Mitochondrial DNA from *Podospora anserina* **173**

H. P. Zassenhaus, P. S. Perlman
Respiration Deficient Mutants in the A+T-Rich Region of Yeast Mitochondrial DNA Containing the var 1 Gene **179**

G. Reipen, E. Erhart, K. D. Breunig, C. P. Hollenberg
Non-Selective Transformation of *Saccharomyces cerevisiae* **189**

D. Roy, P. A. Fantes
Benomyl Resistant Mutants of *Schizosaccharomyces pombe* Cold-Sensitive for Mitosis **195**

D. W. MacDonald
A Single Mutation Leads to Loss of Glutamine Synthetase and Relief of Ammonium Repression in *Aspergillus* **203**

S. D. Mishra, C. A. Michels
Glucosamine-Resistant Mutations in Yeast Affecting the Glucose Repression Sensitivity of Electron Transport Enzymes **209**

P. Tudzynski, U. Stahl, K. Esser
Development of a Eukaryotic Cloning System in *Podospora anserina* I. Long, Lived Mutants as Potential Recipients **219**

O. Girgsdies
Sterile Mutants of *Schizosaccharomyces pombe*: Analysis by Somatic Hybridization **223**

B. F. Lang, F. Kaudewitz
Cytochrome c_1-Deficient Mutants in *Saccharomyces cerevisiae* **229**

I. L. Calderón, E. Cerdá-Olmedo
Simultaneous Induction of Multiple Mutations by N-Methyl-N′-Nitro-N-Nitrosoguanidine in the Yeast *Saccharomyces cerevisiae* **237**

H. N. Arst, Jr., A. G. Brownlee, S. A. Cousen
Nitrogen Metabolite Repression in *Aspergillus nidulans*: A Farewell to *tam* A? **245**

Indexed in Current Contents

Author Index of Volume 6 (1982)

Adams, J. 21
Arst, H. N. Jr. 79, 245

Badaracco, G. 47
Becher, D. 163
Bégueret, J. 39
Bjornstad, K. A. 5
Böttcher, F. 163
Breilmann, D. 55
Breunig, K. D. 189
Brownlee, A. G. 245
Bruschi, C. V. 5
Burkard, G. 63

Calderón, I. L. 237
Capucci, L. 47
Cerdá-Olmedo, E. 237
Chambers, J. A. A. 87
Ciriacy, M. 55
Colijn, C. M. 129
Conrad, B. 163
Conrad, M. N. 147
Cousen, S. A. 245
Cox, B. S. 29
Crouse, E. J. 63
Crouzet, M. 39
Csépl˝o, A. 105
Cummings, D. J. 173

Das, S. 123
Davison, J. 19

Emeis, C. C. 25
Erhart, E. 189
Esposito, M. S. 5
Esser, K. 153, 219

Fantes, P. A. 195
Faye, G. 159
Fournier, P. 31
Fox, T. D. 1

Gaillardin, C. 31
Ginelli, E. 47
Girgsdies, O. 223

Halfmann, H. J. 25
Ha Thi, V. 19
Heizmann, P. 111, 119
Heslot, H. 31
Heyer, W.-D. 13
Hilger, F. 93
Hollenberg, C. P. 123, 189
Hussein, Y. 111

Kaudewitz, F. 31, 229
Keller, M. 63
Kool, A. J. 129
Kuntz, M. 63

Lang, B. F. 31, 229
Lazdins, I. B. 173
Louvencourt, L. de. 31

MacDonald, D. W. 203
Maleas, D. T. 5
Maliga, P. 105
McCready, S. J. 29
Meinhardt, F. 171
Michels, C. A. 209
Mishra, S. D. 209
Mol, J. N. M. 129
Mortimer, R. 93

Newlon, C. S. 147
Nicolas, A. 137
Nicolas, P. 111
Nigon, V. 111, 119
Nijkamp, H. J. J. 129

Ono, B.-I. 71

Paquin, C. 21
Perlmann, P. S. 179
Plevani, P. 47
Prévot, M. 93

Ravel-Chapuis, P. 119
Reipen, G. 189
Richmond, K. M. V. 167
Röcken, W. 25
Roy, D. 195

Sacchi, N. 47
Sijmons, P. 129
Simon, M. 159
Stahl, U. 219
Strauss, A. 13
Suda, K. 99

Takano, A. 99
Thuriaux, P. 13
Tollervey, D. W. 79
Tudzynski, P. 153, 219

Uchida, A. 99

Weil, J. H. 63
Weng, M. 71
Wilkins, S. A. 87
Williamson, D. H. 167

Zassenhaus, H. P. 179
Zimmermann, U. 25